AMENDMENTS TO THE CLAIMS

Please amend the claims of the present application as set forth below. In accordance with the PTO's revised amendment format, a detailed listing of all claims has been provided. This listing of claims will replace all prior versions and listings of claims in the application. Changes to the claims are shown by strikethrough (for deleted matter) and underlining (for added matter).

By way of overview claims 1-36, 42-45 and 52-63 are currently pending claims (note that claims 37-41 and 46-51 having been previously cancelled without prejudice or disclaimer). The status of the pending claims is indicated below:

- a) Claims 1-32, 36, 42, 45, 52 and 53 are currently amended.
- b) Claim 33 was previously amended;
- c) Claims 34, 35, 43 and 44 were previously added; and
- d) Claims 54-63 are newly presented herein.

Listing of Claims

- 1. (Currently Amended) A video input system for pre-processing video signals, the system comprising:
- a video input module for receiving, <u>processing</u> and forwarding one or more live video signals, the video input module producing a forwarded video signal for each received live video signal;
- a first multiplexer, coupled to a memory and to the video input module, for receiving a first stored video signal from the memory, or for receiving one of the forwarded video signals produced in the video input module, and for providing an output signal VS₁ defined as the first stored video signal or defined as the one of the forwarded video signals;

a first video pipeline for pre-processing VS₁, the first video pipeline producing a first pre-processed video signal;

a second multiplexer, coupled to the memory and to the video input module, for receiving a second stored video signal from the memory, or for receiving one of the forwarded video signals produced in the video input module, and for providing an output signal VS₂ defined as the second stored video signal or defined as the one of the forwarded video signals; and

a second video pipeline for pre-processing VS_2 , the second video pipeline producing a second pre-processed video signal.

2. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein the video input module further comprises:

an ancillary data extractor, the extractor removing ancillary data from at least one of the live video signals converted in the video input module.

- 3. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein the received live video signal is VS, wherein VS is an analog composite video signal, an analog component video signal, a serial digital composite video signal, a serial digital component video signal, a parallel digital composite video signal, or a parallel digital component video signal.
- 4. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein the forwarded video signal includes D, wherein D is color data, alpha data, or color and alpha data.

5. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein at least one of the pre-processed video signals is e-VS, wherein e-VS is an RGB encoded video signal, an RGBA encoded video signal, a YUV-Type encoded video signal, or a YUVA-Type encoded video signal.

- 6. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein the first pre-processed video signal is output to a storage medium and the second pre-processed video signal is forwarded to a video graphics processor.
- 7. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein the first pre-processed video signal is output to a storage medium and the second pre-processed video signal is forwarded to a video output system.
- 8. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein the first pre-processed video signal is forwarded to a video graphics processor and the second pre-processed video signal is forwarded to a video output system.
- 9. (Currently Amended) The video input system according to claim [[‡]] <u>52</u> wherein the process of pre-processing includes changing the sample rate of the video signal being pre-processed.
- 10. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein the process of pre-processing includes gamma removal.

11. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein the process of pre-processing includes gamma insertion.

- 12. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein the process of pre-processing includes color space conversion.
- 13. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein the process of pre-processing includes dithering.
- 14. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein the process of pre-processing includes scaling.
- 15. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein the process of pre-processing includes addressing on a frame-by-frame basis the video signal being pre-processed.
- 16. (Currently Amended) The video input system according to claim [[4]] <u>52</u> wherein the system is a Peripheral Component Interconnect circuit board.
- 17. (Currently Amended) A method for pre-processing video signals, the method comprising:

receiving <u>and processing</u> one or more live video signals in a video input module and forwarding the one or more live video signals, producing a forwarded video signal for each received live video signal;

receiving, in a first multiplexer coupled to a memory and to the video input module, a first stored video signal from the memory, or one of the forwarded video signals produced in the video input module, and providing an output signal VS₁ defined as the first stored video signal or defined as the one of the forwarded video signals;

pre-processing VS₁ through a first video pipeline to produce a first pre-processed video signal;

receiving, in a second multiplexer coupled to the memory and to the video input module, a second stored video signal from the memory, or one of the forwarded video signals produced in the video input module, and providing an output signal VS_2 defined as the second stored video signal or defined as the one of the forwarded video signals; and

pre-processing VS₂ through a second video pipeline to produce a second pre-processed video signal.

18. (Currently Amended) The method according to claim [[17]] 53, further comprising:

removing ancillary data from at least one of the live video signals prior to converting the at least one live video signal.

19. (Currently Amended) The method according to claim [[17]] 53 wherein the received live video signal is VS, wherein VS is an analog composite video signal, an analog component video signal, a serial digital composite video signal, a serial digital component video signal, a parallel digital composite video signal, or a parallel digital component video signal.

20. (Currently Amended) The method according to claim [[47]] 53 wherein the forwarded video signal includes D, wherein D is color data, alpha data, or color and alpha data.

- 21. (Currently Amended) The method according to claim [[47]] 53 wherein at least one of the pre-processed video signals is e-VS, wherein e-VS is an RGB encoded video signal, an RGBA encoded video signal, a YUV-Type encoded video signal, or a YUVA-Type encoded video signal.
- 22. (Currently Amended) The method according to claim [[17]] 53 wherein the first pre-processed video signal is output to a storage medium and the second pre-processed video signal is forwarded to a video graphics processor.
- 23. (Currently Amended) The method according to claim [[17]] 53 wherein the first pre-processed video signal is output to a storage medium and the second pre-processed video signal is forwarded to a video output system.
- 24. (Currently Amended) The method according to claim [[17]] 53 wherein the first pre-processed video signal is forwarded to a video graphics processor and the second pre-processed video signal is forwarded to a video output system.
- 25. (Currently Amended) The method according to claim [[47]] <u>53</u> wherein the process of pre-processing includes changing the sample rate of the video signal being pre-processed.

26. (Currently Amended) The method according to claim [[17]] 53 wherein the process of pre-processing includes gamma removal.

- 27. (Currently Amended) The method according to claim [[17]] 53 wherein the process of pre-processing includes gamma insertion.
- 28. (Currently Amended) The method according to claim [[17]] 53 wherein the process of pre-processing includes color space conversion.
- 29. (Currently Amended) The method according to claim [[17]] 53 wherein the process of pre-processing includes dithering.
- 30. (Currently Amended) The method according to claim [[17]] 53 wherein the process of pre-processing includes scaling.
- 31. (Currently Amended) The method according to claim [[17]] 53 wherein the process of pre-processing includes addressing on a frame-by-frame basis the video signal being pre-processed.
- 32. (Currently Amended) A video input system for pre-processing video signals, the system comprising:

input means for receiving <u>and processing</u> one or more live video signals and for forwarding the one or more live video signals, producing a forwarded video signal for each received live video signal;

first multiplexing means, coupled to a memory and to the input means, for receiving a first stored video signal from the memory or for receiving one of the forwarded video signals produced in the input means, and for providing an output signal VS₁ defined as the first stored video signal or defined as the one of the forwarded video signals;

means for pre-processing VS₁ through a first video pipeline to produce a first pre-processed video signal;

second multiplexing means, coupled to the memory and to the input means, for receiving a second stored video signal from the memory or for receiving one of the forwarded video signals produced in the input means, and for providing an output signal VS₂ defined as the second stored video signal or defined as the one of the forwarded video signals; and

means for pre-processing VS₂ through a second video pipeline to produce a second pre-processed video signal.

- 33. (Previously Amended) The system according to claim 32, further comprising: means for removing ancillary data from at least one of the live video signals prior to converting the at least one live video signal.
- 34. (Previously Added) The video input system according to claim 1 wherein the forwarded video signal received by the first multiplexer is the same as the forwarded video signal received by the second multiplexer.

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2	forwarded video signal received
3	video signal received by the seco
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5	36. (Currently Amended)
6	comprising:
7	a third multiplexer for red
8	routing an output signal based th
9	processor, and or a storage medi
10	a fourth multiplexer for re
11	routing another output signal bas
12	graphics processor, and or the sto
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14	37. (Cancelled)
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16	38. (Cancelled)
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18	39. (Cancelled)
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20	40. (Cancelled)
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22	41. (Cancelled)
23	
24	42. (Currently Amended)
25	the system comprising:

35. (Previously Added) The video input system according to claim 1 wherein the forwarded video signal received by the first multiplexer is different than the forwarded video signal received by the second multiplexer.

36. (Currently Amended) The video input system according to claim 1, further comprising:

a third multiplexer for receiving the first pre-processed video signal and for routing an output signal based thereon to one of: a video output system, a video graphics processor, and or a storage medium; and

a fourth multiplexer for receiving the second pre-processed video signal and for outing another output signal based thereon to one of: the video output system, the video graphics processor, and or the storage medium.

42. (Currently Amended) A video input system for pre-processing video signals, system comprising:

a video input module for receiving, <u>processing</u> and forwarding a video signal;
a first video pipeline for pre-processing the forwarded video signal to produce a
first pre-processed video signal, wherein the pre-processing in the first video pipeline
includes <u>at least</u> one of: up sampling, down sampling, gamma insertion, gamma removal,
color space conversion, scaling, <u>and or</u> dithering; and

a second video pipeline for pre-processing the same forwarded video signal to produce a second pre-processed video signal, wherein the pre-processing in the second video pipeline includes <u>at least</u> one of: up sampling, down sampling, gamma insertion, gamma removal, color space conversion, scaling, <u>and or</u> dithering,

wherein the video input system is configured to forward the first pre-processed video signal to a storage medium, and

wherein the video input system is configured to forward the second pre-processed video signal to a display or to a video output system.

- 43. (Previously Added) The method according to claim 17 wherein the forwarded video signal received by the first multiplexer is the same as the forwarded video signal received by the second multiplexer.
- 44. (Previously Added) The method according to claim 17 wherein the forwarded video signal received by the first multiplexer is different than the forwarded video signal received by the second multiplexer.
 - 45. (Currently Amended) The method according to claim 17, further comprising:

receiving, in a third multiplexer, the first pre-processed video signal, and routing an output signal based thereon to one of: a video output system, a video graphics processor, and or a storage medium; and

receiving, in a fourth multiplexer, the second pre-processed video signal, and routing another output signal based thereon to one of: the video output system, the video graphics processor, and or the storage medium.

- 46. (Cancelled)
- 47. (Cancelled)
- 48. (Cancelled)
- 49. (Cancelled)
- 50. (Cancelled)
- 51. (Cancelled)

52. (Currently Added) A video input system for pre-processing video signals, the system comprising:

a video input module for receiving, <u>processing</u> and forwarding one or more live video signals, the video input module producing a forwarded video signal for each received live video signal;

a first video pipeline for pre-processing VS₁, wherein the video input system is configured to receive VS₁ as a first stored video signal in one input configuration, and the video input system is configured to receive VS₁ as one of the forwarded video signals produced in the video input module in another input configuration, the first video pipeline producing a first pre-processed video signal; and

a second video pipeline for pre-processing VS₂, wherein the video input system is configured to receive VS₂ as one of the same video signal being pre-processed in the first video pipeline in one input configuration, and the video input system is configured to receive VS₂ as one of the other forwarded video signals produced in the video input module in another input configuration, and the video input system is configured to receive VS₂ as a second stored video signal in another input configuration, the second video pipeline producing a second pre-processed video signal,

wherein the pre-processing in the first video pipeline makes changes to [[displayable]] video content in the signal VS_1 ,

and wherein the pre-processing in the second video pipeline makes changes to [[displayable]] video content of the signal VS₂.

53. (Currently Amended) A method for pre-processing video signals, the method comprising:

receiving <u>and processing</u> one or more live video signals in a video input module and forwarding the one or more live video signals, producing a forwarded video signal for each received live video signal;

selecting an input configuration used to define a signal VS₁, wherein in one input configuration, VS₁ is a first stored video signal, and in another input configuration, VS₁ is one of the forwarded video signals produced in the video input module;

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pre-processing VS₁ through a first video pipeline, producing a first pre-processed video signal;

selecting an input configuration used to define VS_2 , wherein in one input configuration, VS_2 is the same video signal being pre-processed in the first video pipeline, and in another input configuration, VS_2 is one of the other forwarded video signals produced in the video input module, and in another input configuration VS_2 is a second stored video signal; and

pre-processing VS₂ through a second video pipeline, producing a second pre-processed video signal,

wherein the pre-processing in the first video pipeline makes changes to [[displayable]] video content in the signal VS₁,

and wherein the pre-processing in the second video pipeline makes changes to [[displayable]] video content of the signal VS₂.

54. (New) The video input system according to claim 52 wherein the processing performed by the video input module comprises converting said one or more live video signals into a defined format to provide the forwarded video signal for each received live video signal.

- 55. (New) The video input system according to claim 52 wherein the video input module comprises a receiver, a processor and a buffer.
- 56. (New) The video input system according to claim 52 wherein the first video pipeline and the second video pipeline respectively generate video signals for output to two different output devices.

pipeline and the second video pipeline process two video signals having separate content in interleaved fashion.

57. (New) The video input system according to claim 52 wherein the first video

- 58. (New) The video input system according to claim 52 wherein the video input system is coupled to a video output system, wherein the video output system defines a video signal output format of a combination of the video input system and the video output system.
- 59. (New) The method according to claim 53 wherein the processing performed by the video input module comprises converting said one or more live video signals into a defined format to provide the forwarded video signal for each received live video signal.
- 60. (New) The method according to claim 53 wherein the video input module comprises a receiver, a processor and a buffer.
- 61. (New) The method according to claim 53 wherein the first video pipeline and the second video pipeline respectively generate video signals for output to two different output devices.
- 62. (New) The method according to claim 53 wherein the first video pipeline and the second video pipeline process two video signals having separate content in interleaved fashion.

63. (New) The method according to claim 53 wherein the video input module, first video pipeline and second video pipeline are coupled to a video output system, wherein the video output system defines a video signal output format of a combination of the video input module, first video pipeline, second video pipeline and the video output system.